

s/050/61/000/002/003/004 B117/B209

3,5000

AUTHOR:

The conditions for the evolution of surfaces of the Earth's Popova, M. A.

TITLE:

absolute potential averaged over time

Meteorologiya i gidrologiya, no. 2, 1961, 20-24

TEXT: The author of the present paper made an attempt to apply the hydrodynamic equations averaged over time in their complete form to the surfaces PERIODICAL: of the geopotential as averaged over a synoptic period (4 - 8 days). The or the geopotemental as averaged over a synopoto period (4 - 0 days). The derivation of the equation of motion averaged over time resembles the derivation of the equation of motion averaged over time resembles. vation of dynamic equations of a turbulent motion, as is known from Refs. 1 value of and 4. From the theory of turbulent motion it follows that the values of the coefficients K and K' increase when the averaging scale is magnified with progressing time (K and K characterize the vertical and the horizontal with progressing time (n and n one) of 2^{-1} , $K^{1} = 10^{9}$ cm sec 1^{-1} are assumed for exchange). The values $K = 10^{5}$ cm sec 1^{-1} , $K^{2} = 10^{-1}$ cm sec 1^{-1} cm se macroturbulence. The K and K' values were determined for averaging over 4 - 8 days. The equations resulting from the semi-empirical theory of

Card 1/4

S/050/61/000/002/003/004 B117/B209

The conditions for the evolution: ...

turbulence were employed in the calculation of K and K'. The values to be introduced in these formulas were taken from the charts for the synpotic period from August 10 to 14, 1958. Calculations were made for a level of 700 millibars. During the time under consideration, a cyclone with its center near Moscow lay over the European part of the USSR. K and K' were calculated for this region at nine points of observation that were more cr less uniformly distributed around this center. A mean value between 10⁵ and 10⁶ cm²sec⁻¹, rather tending towards 10⁵, was found for K. This value may be considered true. The results of horizontal exchange were enhanced. Under consideration of the monthly average and of the data obtained by other scientists and other methods, a characteristic value of 5.109 cm2sec was assumed for K'. Presumably, this is the upper limit of the average over the period. The mean local variations of the geopotential in a synoptic period, just like in the case of individual processes, were found to depend chiefly on the horizontal advection Ω and on the horizontal wind divergence. A formula for the forecast of these evolutionary variations was derived: $\delta \vec{H} = 1.5(\vec{u}_x + \vec{v}_y) + \left[-1.6\overline{\Delta H} + (\vec{v}_x - \vec{u}_y)\right]$ Forecasts on the evolution of cyclones and anticyclones were malculated Card 2/4

S/050/61/000/002/003/004 B117/B209

The conditions for the evolution ...

by this formula on the base of data for five periods for a level of 700 millibars. Following the suggestion of Ref. 10, the quantities in (10) were averaged over a surface the dimensions of which correspond to those of a baric formation. The results of this forecast as determined by formula (10) were satisfactory although the stability problem is not quite clear in some cases. It is stated that the problem was solved in a simplified way. This fact and the positive results from (10) are indicative of a possible application of this formula and of improved future forecast schemes. However, the practical realization of these forecasts for local variations of the geopotential because of voluminous calculations will be possible only with the help of electronic computers. Moreover, thorough investigation should be made as to whether the forecast scheme has to be completed by elements that depend on heat supply and frictional force. These may become considerably important during the individual periods and have a distinct effect upon the circulation of the current and of the subsequent periods. Of course, attention must be paid in every individual case to the rational evaluation of the wind observations. The following persons are mentioned in the paper:

Card 3/4

The conditions for the evolution ...

S/050/61/000/002/003/004 B117/B209

N. Ye. Kochin, Ye. S. Lyapin, A. S. Monin, K. A. Reshetnikova, A. S. Grigor'yeva. There are 1 table and 12 references: 11 Soviet-bloc.

Card 4/4

24594

s/137/61/000/005/048/060 A006/A106

18 7500

D'yachenko, S.S.; Palatnik, L. S., and Popova, M. A.

TITLE

AUTHORS:

The effect of heat treating conditions on the structure of 20 χM -N

(20 KhM-L) steel

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 5, 1961, 11, abstract 5176

("Tr. Khar'kovsk. politekhn. in-ta", 1959, v. 25, 91-97")

TEXT: The authors carried out metallographical, electron-microscopical and roentgenographical investigations of the microstructure and composition of the carbide phase depending on tempering temperature of 20 KhM-L steel containing (in \$): C 0.15, Si 0.3, Mn 0.61, S 0.026, P 0.039, Gr 0.5, Mo 0.55. After tempering at 400°C the carbide phase consists mainly of carbide with Cr₂₃C6 tempering at 400°C the carbide phase consists mainly of carbide with Cr₂₃C6 tempering and a small amount of Fe₂Mo₂C and Fe₃C carbides. With higher temperatures of tempering the α-solid solution is impoverished of alloying elements tures of tempering the α-solid solution is impoverished of alloying elements which is accompanied by an increased amount of Fe₂Mo₂C carbides. Above 570°C which is accompanied by an increased amount of Fe₂Mo₂C carbide is singled out.

[Abstracter's note: Complete translation]

Card 1/1

SEMENKO, V.Ye.; VLADIMIROVA, M.G.; POPOVA, M.A.

Culture of Chlorella pyrenoidosa in pulsed light. Fiziol. rast. 7 no.4:459-465 160. (MIRA 13:9)

1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Algae) (Light—Physiological effect)

POPOVA, M.A.

Using ultrahigh-frequency apparatus as a single treatment for acute and chronic parodontitis of the upper part of the teeth.

Stomatologiia 35 no.5:9-13 S-0 '56 (MLRA 10:4)

1. Iz stomatologicheskogo otdeleniya TSentral'noy polikliniki Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova. (TEETH-DISEASES) (ELECTRICITY IN DENTISTRY)

POPOVA, N. A.

Berliner, B. I. and Popova, E. A. *Clinical-statistical characteristics of the causes of invalidism resulting from gun shot wounds, based on data from the Tashkent VINA, *Sbornik trudov Nauch.-isslad. in-ta ortopedii, travmatologii i protezirovaniya (M-vo adravookhraneniya Us SSR), Vol. I, 1948, p. 27-32

SO: U-4934, 29 Oct. 53, (Letopis 'Zhurval 'nykh Stately, No. 16, 1949).

POPOVA, N. A.

Berliner, B. I. and <u>Popova, E. A.</u> "Certain results in the treatment of discilled soldiers of the Great Fatherland M.r in the Uz SSR for 19-6 and the basic measures taxen in the first post-war Five-Year Pl n," Sbornik trudov Mauch.-issled. in-ta ortopedil, travmatologic i protezirovaniya (K-vo zdravookhrameniya Uz SSR), Vol. I, 1949, p. 15-25

SO: U-1934, 29 Oct. 53, (Lotopis 'Zhurval 'nykh Stately, No. 16, 1949).

DARVOYD, T.I.; CUREVICH, M.A.; NOVICHKOVA, S.M.; POPOVA, M.A.

System TlBr - TlI. Zhur, neorg, khim, 10 no.2:462-466 F '65. (MIRA 18:11)

1. Gosudarstvennyy nauchno-issledovatel skiy i proyektnyy institut redkometallicheskoy promyshlennosti. Submitted Aug. 28, 1963.

ABRIKOSOV, N.Kh.; YELAGINA, Ye.I.; POPOVA, M.A.

Study of the system PbTe - Sb Te 3 Izv. AN SSSR. Neorg. mat. 1 no.12:2151-2153 D '65. 2 3 (MIRA 18:12)

1. Institut metallurgii im. A.A. Baykova i Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. Submitted July 28, 1965.

FOPOVA, Mayya Nikiforovna; GARF, S.E., kand. Tobba. nauk,
retsenzent; KOVALEV, K.V., dets. kand.tekhn.nauk,otv.red.;
DEREVYANCHENKO, R.M., red.

[Methods for solving problems on the strength of materials]
Ketody reshenila zadach po soprotivienilu materialov.
Khar'kov, Izd-vo Khar'kovskogo univ., 1964. 248 p.

(MIRA 18:1)

S/033/60/037/02/011/013 E032/E914

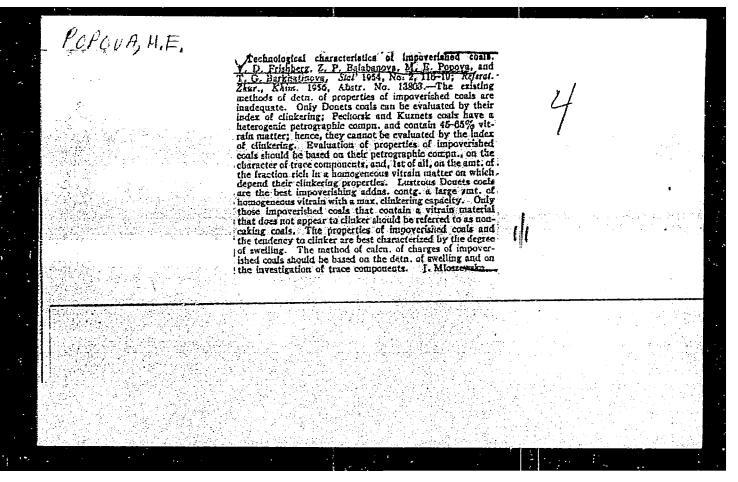
AUTHOR: Popova. M. D.

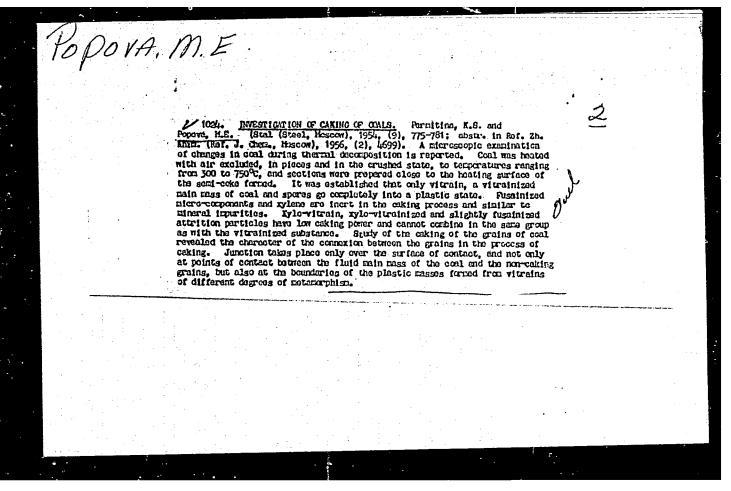
TITLE: Curvature of the Paths of Certain Meteors During Their Motion
Through the Earth's Atmosphere

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 2, pp 352-353
(USSR)

ABSTRACT: The curvature of the paths of meteors is sometimes noted during visual observations. However, this is a relatively rare phenomenon. On November 12, 1956 at 19 hr. 33 min. The phenomenon of the present author succeeded in obtaining a photograph of the present author succeeded in obtaining a photograph of such a meteor. The meteor was observed visually at the same such a meteor. The meteor was obtained with a Zeiss camera with time. The photograph was obtained with a Zeiss camera with a 12 cm objective (1:4.5) on an Astro-Agfa plate (unsensitised). Also a like the change in the direction of the meteor was showed that the change in the direction of the meteor was real and was found to be of the order of 12.5 deg. It is real and was found to be of the track was connected with suggested that the curvature of the track was connected with form of the meteoric body, i.e. a kind of boomerang effect

Card1/2





POPOVA, M. F.

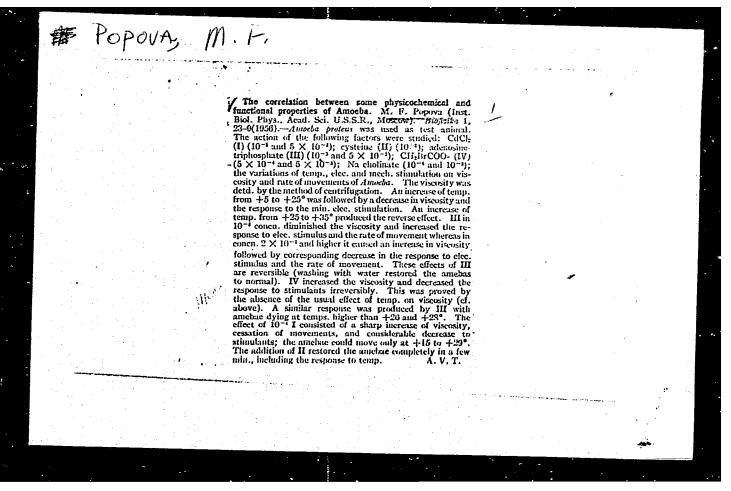
Proteins

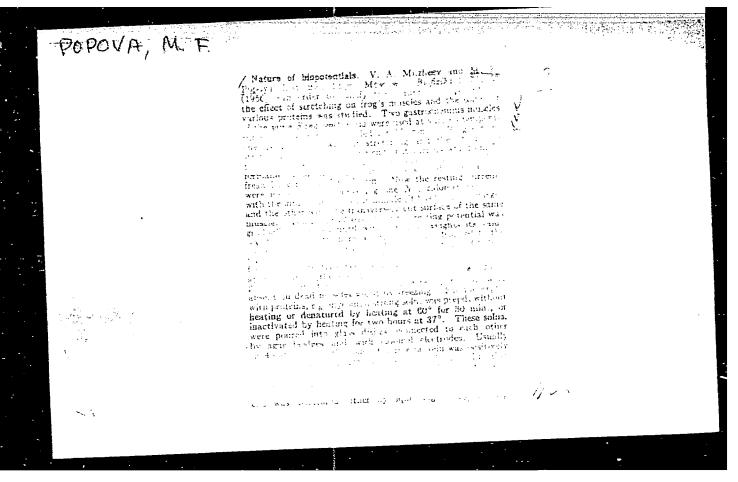
Dependence of glavanotaxis of Paramecium upon metabolism and protein state. Trudy Inst. morf. zhiv. no. 6, 1952.

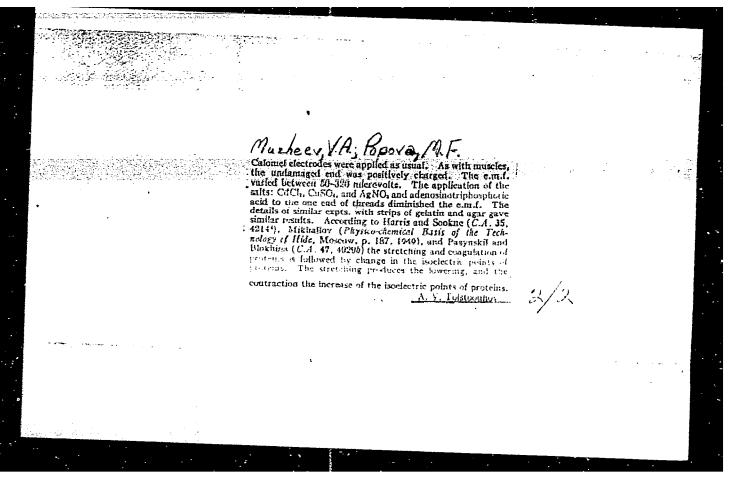
Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

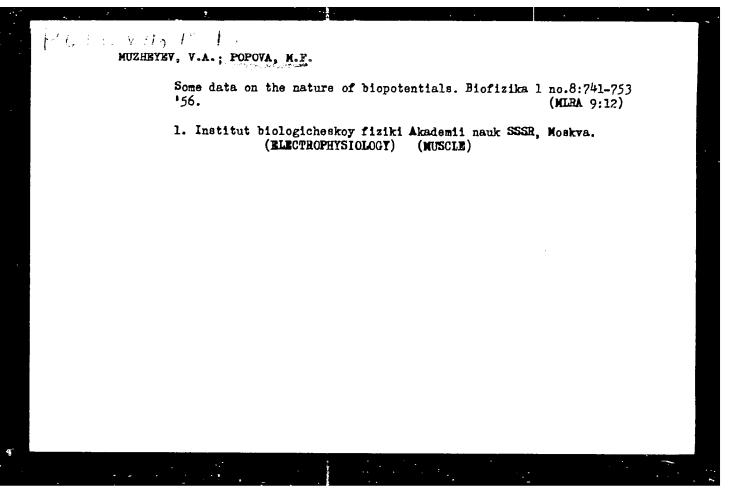
Misanuring Certain Functional and Biochanical Characteristics of Transverse-Striated Muscle: After Emerystics and Temletony." Dani Biol Sci, Moscow Crier of Lenin State V imen; N. V. Lononosov, 17 Sep 54. (VN., 7 Sep 54.)

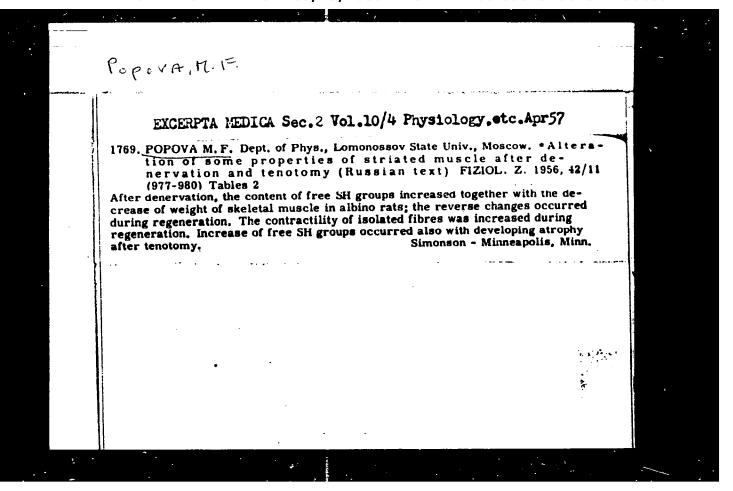
50: Sum 432, 27 Mar 55











POPOVA, M.F.

Ribonucleic acid content of a denervated muscle. Bitl. ekap. biol. i med. 56 no.9:61-64 S '63. (MIRA 17:10)

1. Iz laboratorii gistologii (zav. - prof. A.N. Studitskiy) Instituta morfologii zhivotnykh AN SSSR, Moskva. Predstavlena deystvitelinym chlenom AMN SSSR A.I. Bakulevym.

Effect of denervation on the posttraumatic regeneration of the muscle. Doki. M. 157 no. 2:436-438 Jl (4. (MBa 17:7)

I. Institut morfolog i animotopykh iment devertsova AN SSSC. Predstavleno skademikom F.I.Skryebinya.

POPOVA, M.F.

Role of a plastic condition, caused by denervation in muscular reations to radiation. Dokl. AN SSSR 148 no.1:23-226 Ja 163.

(MIRA 16:2)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.

Predstavleno akademikom A.N. Bakulevym.

[RADIATION—PHYSIOLOGICAL EFFECT) (MUSCLES—INNERVATION)

STUDITSKIY, A.N.; POPOVA, M.F.

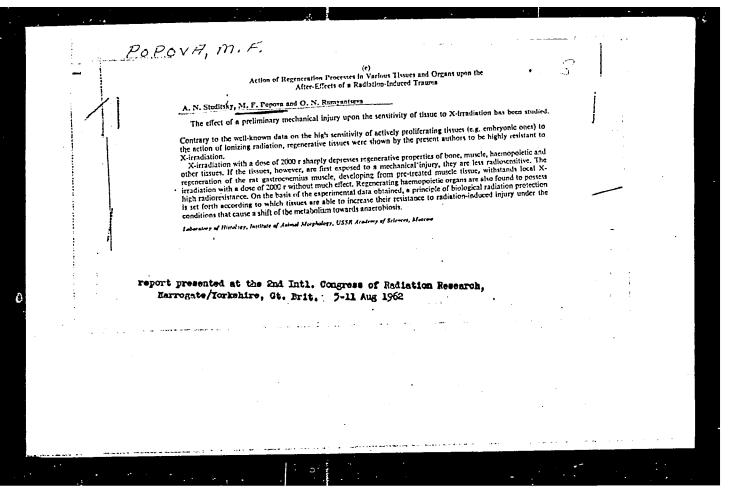
Biological protection of skeletal and muscular tissue against injury by ionizing radiation. Dokl.AN SSSR 145 no.1:198-201 Jl 162. (MIRA 15:7)

l. Institut morfologii zhivotnykh imeni A.N.Severtsova AN SSSR. Predstavleno akademikom A.N.Bakulevym.
(X RAYS--PHYSIOLOGICAL EFFECT) (MISCIE) (BONES)

POPOVA, M.F.

Biochemical analysis of the reaction of muscle tissues to radiation injury in case of a mechanical trauma. Doll.

AN SSSR 143 no.2:444-447 Mr 162. (MIRA 19:3)



s/020/62/145/001/018/018 B144/B138

27 2400

Studitskiy, A. N., and Popova, M. F.

AUTHORS:

Biological protection of muscular tissue against

TITLE: ionizing radiation

Akademiya nauk SSSR. Doklady, v. 145, no. 1, 1962, 198-201 PERIODICAL:

TEXT: The effect of ionizing radiation is studied in regenerates from autotransplanted muscle pulp. The test included 6 series of 7-9 white rats each whose mm. gastrocnemii were extirpated, crushed, reimplanted, and then irradiated with 2000 r 24 hrs, 3, 7, and 14 days after operation. These intervals coincide with stages called latent, mitotic, amitotic and slightly differentiated regenerative phases. The rate were killed 21 days after the operation when the newly formed motor end plates in the regenerate enable a stimulation of the sciatic nerve to be answered by contraction. In the control animals, which were operated and irradiated but not subjected to reimplantation of muscle pulp, the regenerate from the 2-3 mm long proximal stumps showed hardly any signs of contraction on direct or nerve stimulation. Microscopic examination of regenerates

Card 1/2

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001342430003-1"

35733 \$/020/62/143/002/020/022 B144/B138

77.740°

Popova, M. F.

TITLE:

Biochemical analysis of the reaction of muscular tissue to radiation injuries combined with mechanical trauma

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 2, 1962, 444 - 447

TEXT: Increasing posttraumatic regeneration after irradiation by stimulating the plastic state of the muscle tissue is studied. This was defined previously by A. N. Studitskiy (Ref. 16: Eksperimental naya khirurgiya myshts, M., 1959; Ref. 17: II fistol. konfer., M., 1959, p. 243; Ref. 18: Myshts, M. Studitskiy, R. P. Zhenevskaya, O. N. Rumyantseva, Ceskoslov. Morfol., A. N. Studitskiy, R. P. Zhenevskaya, O. N. Rumyantseva, Ceskoslov. Morfol., a. N. Studitskiy, R. P. In nonirradiated muscle tissue crushing and autotransplantation had proved most effective. Regeneration is compared in transplantation had proved most effective. Regeneration is compared in gastrochemii of white rats, which were autotransplanted after crushing or transected 1 day after irradiation of one hind leg with a PVN-1 (RUP-1) transected 1 day after irradiation of one hind leg with those of 3 control x-ray apparatus, dose 2000 r. Results are compared with those of 3 control groups which underwent 1) transection; 2) autotransplantation; 3) irradiation without trauma. Regeneration intensity was judged from RNA content Card 1/3

S/020/62/143/002/020/022 B144/B138

Biochemical analysis of ...

. .

in the regenerate, which was determined histochemically and biochemically. Parallel studies of morphological changes were conducted in cooperation with Wang Hsiu-Pi (Ref. 25: Tez. dokl. I Konfer. po vopr. tsito- i gisto-khimii, M., 1960, p. 58). Variations in RNA content as well as morphological changes indicate that regeneration, which is otherwise markedly delayed after irradiation, sets in earlier and is more intensive after autotrans-plantation of the crushed muscle. This is explained by the development of a highly plastic state of the tissue resulting in the rapid overcoming of radiation injuries. There are 2 figures and 25 references: 22 Soviet-bloc and 3 non-Soviet-bloc. The three references to English-language publications read as follows: A. Portela, Anat. Res., 136, no. 2, 260 (1960); E. B. Darden, Am. J. Physiol., 198, 4, 709 (1960); Th. I. Haley, A. M. Flesher, N. Komesu, Am. J. Physiol., 193, no. 2, 355 (1958).

ASSOCIATION: Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Animal Morphology imeni A. N. Severtsov of the Academy of Sciences USSR)

PRESENTED: Card 2/3

October 16, 1961, by K. I. Skryabin, Academician

Varu 2/)

S/020/62/143/002/020/022
Biochemical analysis of ...
SUBM:ITTED: October 12, 1961

Card 3/3

DAVIDSON, G.O.; PHOKHOROVA, L.B.[translator]; MOROZOV, V.N.[translator];

TURCHIN,V.F. [translator]; POPOVA, M.F., red.

[Biological effects of whole-body gamma radiation on human beings]

Biologicheskie posledstviia obshchego gamma-oblucheniia cheloveka.

Pod red. M.F.Popovoi. Moskva, Atomizdat, 1960. 167 p.

(MIRA 14:8)

1. Johns Hopkins University. Operations Research Office.

(RADIOACTIVE FALLOUT) (GAMMA RAYS—PHYSIOLOGICAL EFFECT)

POPOVA, M.F. (Moskva, B-312, 1-y Akademicheskiy pr., 32, kv.78)

Some biochemical properties of regenerating skeletal muscle.

Arkh. anat. gist. i embr. 39 no. 12:60-64 160. (MIRA 14:2)

l. Laboratoriya gistologii (zav. - prof. A.N. Studitskiy) Instituta morfologii zhivotnykh im. A.N. Severtsova AN SSSR. (MUSCLE-REGENERATION)

POPOVA, M. F., HSIU-PI, WANG

"Regeneration of the Skeletal Musculature After Radiation Damage."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Laboratory of Histology of the Institute of the Morphology of Animals, Academy of Sciences USSR, Mosocw.

USSR / General Biology. Physical and Chemical Biology. B-1

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42703.

Popova, M. F. Author

: The Interrelationship of Some Physico-Chemical and Inst

Title Functional Properties of Amoeba Protoplasm.

Orig Pub: Biofizika, 1956, 1, No 1, 23-29.

Abstract: A parallelism was observed between alteration of viscosity and irritability and mobility of Amoeba proteus. With change of temperature from 50 to 280, protoplasm viscosity decreases, mobility increases, and a lowering of the threshhold of sti-mulation by electric current occurs. When the

Card 1/2

ANDRYUSHCHENEO, F.K.; POPOVA, M.G.; TULYA, Ye.Ya.

Kinetics of the reduction of iron oxide with the use of iron powders. Izv. vys. ucheb. zav. khis. i khis. tekh. 2 nc.2:219-225, 159. (MIRA 12:9)

1.Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina. Kafedra tekhnologii elektrokhimicheskikh proizvodstv. (Iron oxides)

Po Pe	oVA, M.G.			
	N. M. Gaverina, V. N. K. M. C. Sicharento, U. Andria, to U.S.R. 106 oxide and nowed Fe grid	Andreasegiesto, M. G. Proova, barlamov, F. F. Tontage, and S.S.R. 109,156, Dec. 25, 1967. 4404. The heat treatment of Fett, is carried out at a temp, above relative aint of Fe oxide. M. Hoseh	G 1	
	71	Lu		
na ronde siaam	and the second s	. Tragge of a billion of a second of a		BANNING HATTANIESSER RESPONSIVE

5 (1, 2) AUTHORS:

SOV/153-2-2-15/31 Andryushchenko, F. K., Popova, M. G.,

Tulya, Ye. Ya.

TITLE:

1. Reduction Kinetics of Iron Oxide in the Presence of Iron Powder (O kinetike vosstanovleniya okisi zheleza v

prisutstvii zheleznykh poroshkov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1959, Vol 2, Nr 2, pp 219-224 (USSR)

ABSTRACT:

Since 1952 the method of the so called "reduction in solid phase" (Refs 1, 2) gained a leading position in the production of the active iron masses for the negative electrode of the alkaline accumulator. It is based on the reduction of iron oxide down to magnetic iron oxide in the presence of iron powders without the supply of oxygen. Before the theoretical fundamentals of this process were finally formulated and before its kinetic rule had been explained, numerous advantages of this method enforced its introduction into the working

practice. Experts endeavored to explain these processes (Refs 3-8).

If in the system here discussed, water steam, Fe 203 and iron powder exist in amounts which do not exceed the stoichiometrical

Card 1/3

1. Reduction Kinetics of Iron Oxide in the Presence of Iron Powder

sov/153-2-2-15/31

amount (for iron an amount that corresponds to Fe + 4 Fe,03 -> \longrightarrow 3 Fe₃0₄), the powder is bound to be oxidized to Fe₃0₄ within a certain length of time. Iron oxide for its part, has to be reduced to Fe₃O₄ (Refs 7, 9). The present information gives experimental results for the purpose of explaining the above mentioned rules with a natural moisture content in iron. The average figures of the results obtained are shown in figure 1. The continuous line corresponds to heating, the interrupted line to cooling. The amount of moisture determined in the experiments just recently, were taken into consideration. The reduction method was applied with exclusion of air, in order to determine finally the rôle of water. Powder of electrolytic iron was used with $S = 695 \text{ cm}^2/\text{g}$ (according to Tovarov). The plant where the experiment was carried out is shown in figure 2. After an experiment of three hours duration, iron oxide (according to a chemical analysis) was completely reduced and the iron powder was oxidized. Figure 3 shows the Debye graphs. Further experiments served the purpose of

Card 2/3

1. Reduction Kinetics of Iron Oxide in the Presence of Iron Powder

SOV/153-2-2-15/31

making the results applicable in working practice, and were carried out in air atmosphere. Cast iron powder was used. The table (p 223) shows the results. The reduction procedure is given. Figure 4 gives data on the phase composition of the reduced oxide in test II. Finally, the authors deal with a detailed explanation of the factors limiting or accelerating the reduction process of iron oxide in the presence of iron powder. Professor L. S. Palatnik collaborated in the analysis of the X-ray structure of the products. There are 4 figures, 1 table, and 10 references, 8 of which are Soviet.

ASSOCIATION:

Khar'kovskiy politekhnicheskiy institut imeni V. I. Lenina; Kafedra tekhnologii elektrokhimicheskikh proizvodstv (Krar'kov Polytechnic Institute imeni V. I. Lenin; Chair of Technology of Electrochemical Products)

SUBMITTED:

December 9, 1957

Card 3/3

POPOVA, M. G.

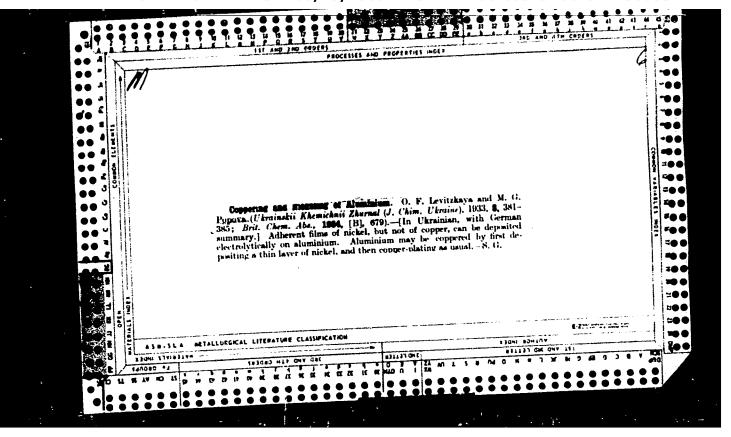
22999 K mekhanizmy katodnogo osazhdeniya nikelya. Trudy khar'k. Khim. tekhnol. In-ta Im. Kirava, Vyp. 7, 1949, C. 53-57

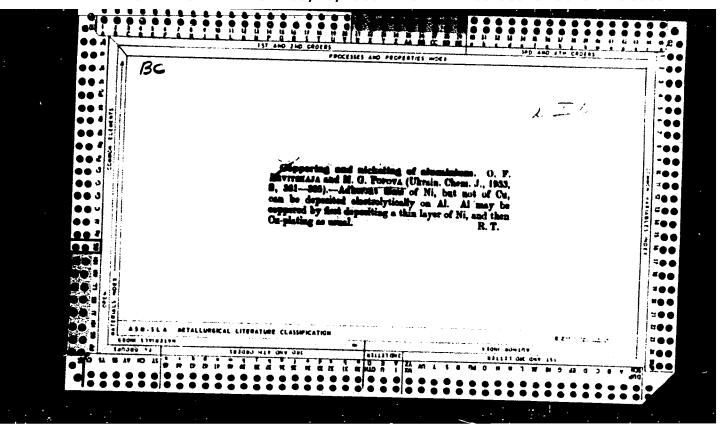
SO: LETOPIS' NO. 31, 1949

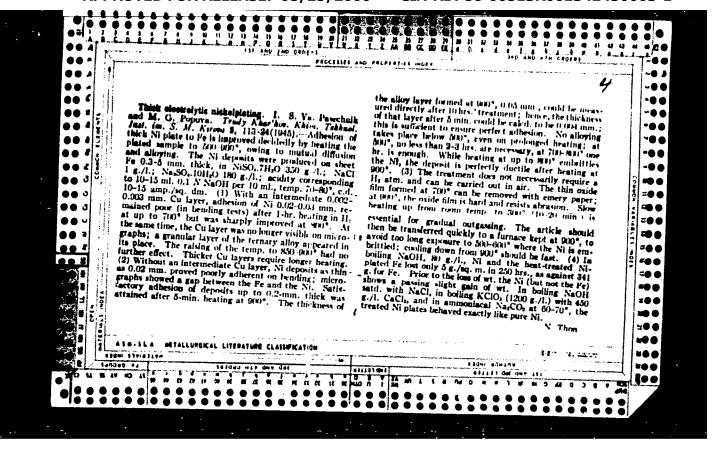
ANDRYUSHCHENKO, F.K.; POPOVA, M.G.; TULYA, Ye.Ya.

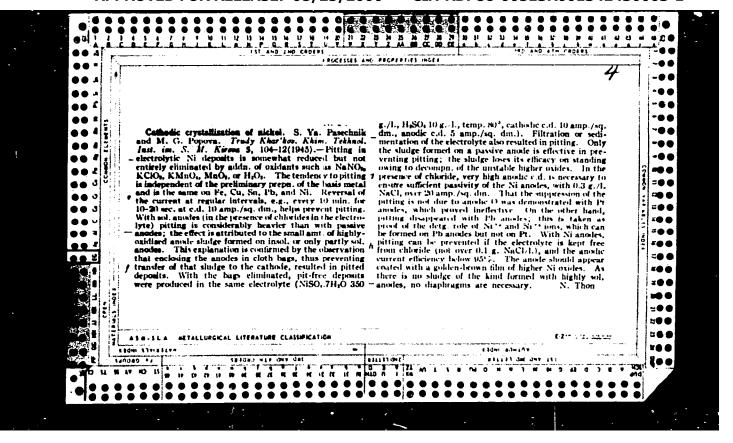
Kinetics of the reduction of iron oxide in the presence of iron powders. Part 2. Izv.vys.ucheb.zav.; khim.i khim.tekh. 4 nc.1:106-115 161. (MIRA 14:6)

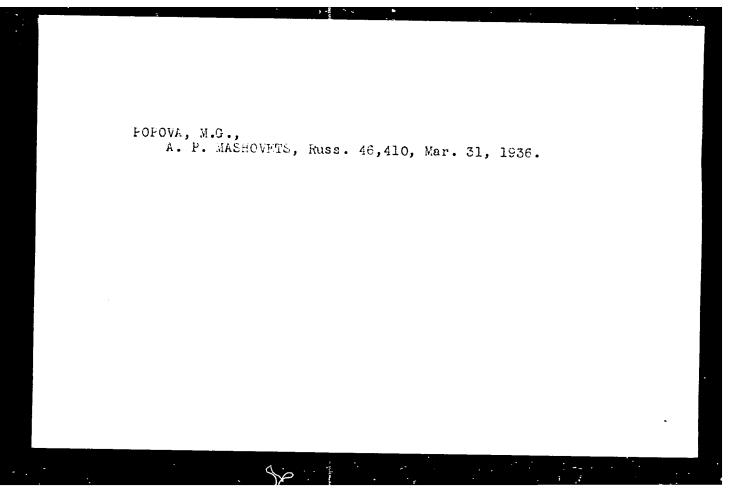
1. Khar kovskiy politekhnicheskiy institut imeni V.I.Lenina, kafedra tekhnologii elektrokhimicheskikh priizvodstv. (Iron oxide) (Reduction)











DROZDOV, Leonid Mikolayevich; POPOVA, M.I., red.; SMIRNOVA, M.I., tekhn.red.

[Textbook for practical work in agriculture] Uchebnoe rukovodstvo k prakticheskim rabotam po sel'skomu khosiaistvu. Izd.2., ispr. i dop. Moskva, Gos.uchebno-pedagog.lzd-vo M-va prosv. ESFSE, 1958. 215 p.

(Agriculture)

(Agriculture)

PONOMAREV, Vasiliy Petrovich, kand.biolog.nauk; POPOVA, M.I., red.; KREYS, I.G., tekhn.red.

[School excursions to places of agricultural production]
Shkol'nye ekskursii v sel'skokhoziaistvennoe proizvodstvo;
iz opyta raboty. Moskva, Gos.uchebno-pedagog.izd-vo M-va
prosv.RSFSR, 1960. 156 p.

(School excursions)
(Agriculture--Study and teaching)

(MIRA 14:1)

PELEVIN, V.I.; POPOVA, M.I., red.; MAKAROV, V.V., red.; KOZLOVSKAYA, M.D., tekhn. red.; KORNEYEVA, V.I., tekhn. red.

[Conservation] Ob okhrane prirody; sbornik statei. Moskva, Uchpedgiz, 1962. 205 p. (MIRA 16:6)

(Conservation of natural resources)

POFOVA, F. L.

POPOVA, M.I.: "The problem of mastering the grammatical elements of the language by preschool children (the mastery of gender agreement)." Moscow Order of Lenin and Order of Labor Red Banner State U imeni M.V. Lomonosov. Moscow, 1956. (Dissertations for Degree of Candidate in redagogical Sciences).

SO: Knizhnays Letopsis' No. 22, 1956

KAPLAN, S.M., kand. sel'skokhozyaystvennykh nauk; POPOVA, M.I., agronom.

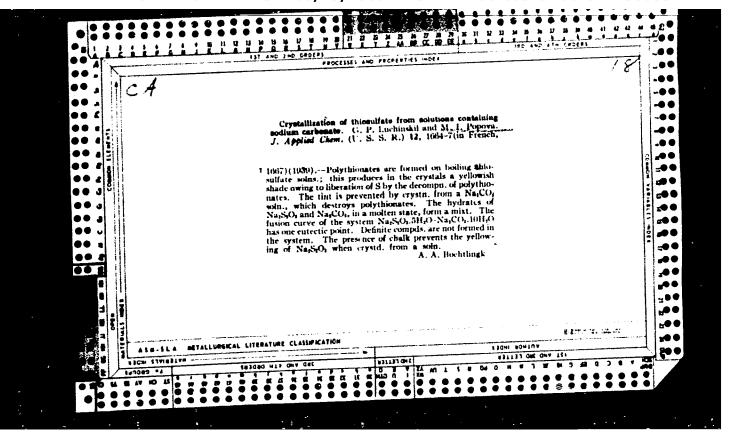
Experiment in spring harrowing of winter wheat. Zemledelie 6 no.5:
56-60 My '58. (Mira 11:6)

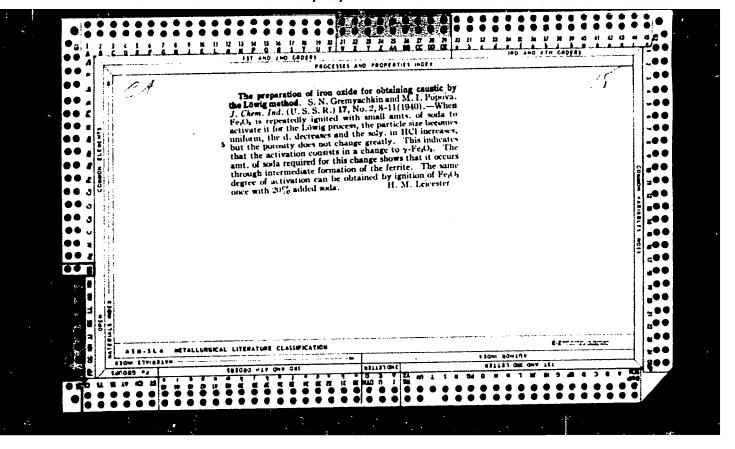
(Wheat) (Harrow)

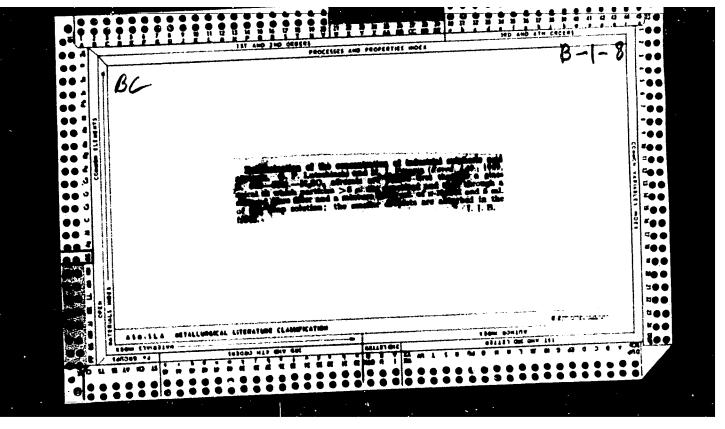
POPOVA, M. I.

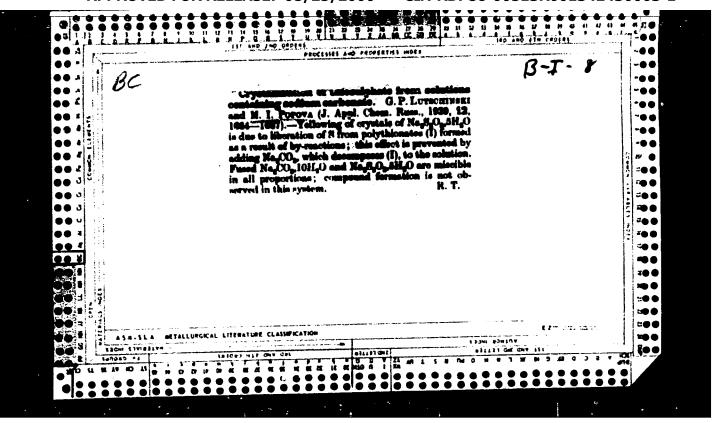
Grammatical elements of language in the speech of preschool children.
[with summary in English]. Vop.psikhol. 4 no.3:106-117 My-Je '58
(MIRA 11:8)

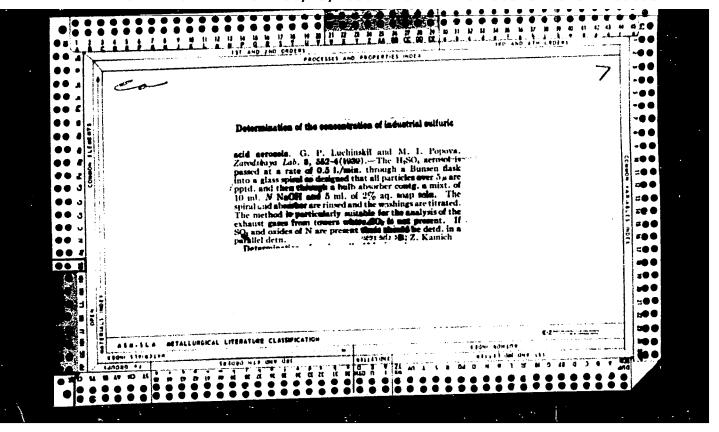
1. Kafedra psikhologii Moskovskogo gosudarstvennog universiteta.
(SPEECH)
(RUSSIAN LANGUAGE-GENDER)

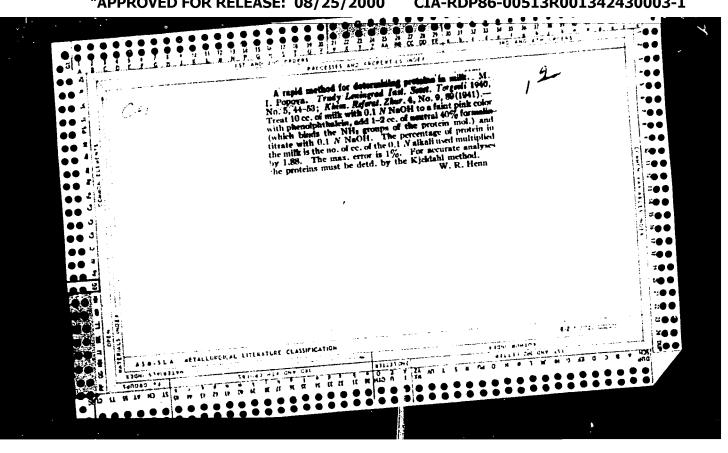












Country : UBSR
CATEGORY : Cultivated Plants. Grains.

A3S. JOUR. ! RZB161., No. 21, 195!, No. 95917

AUTHOR : Kaplan,S.M.; Popova, M.I.

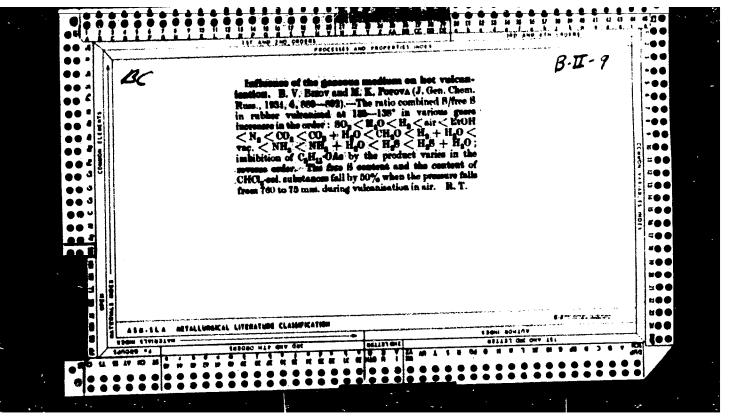
INST. :

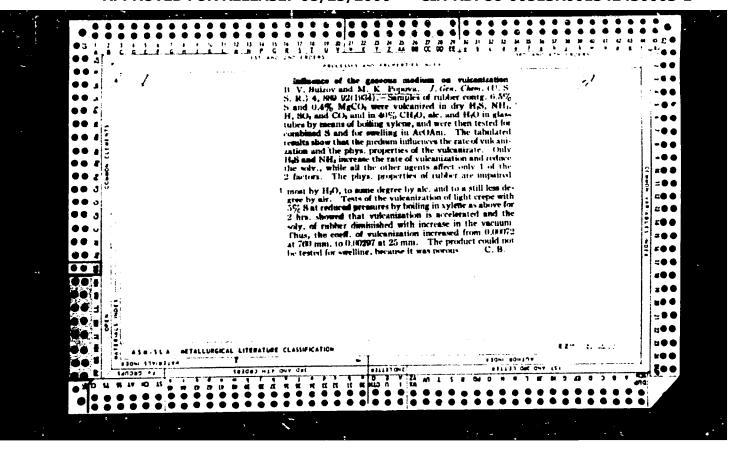
TITLE : An Experiment in Furrowing Winter Wheat
Sowing during Spring

GRIG. PUB. : Zemledeliye, 1958, No. 5, 58-60

ABSTRACT : No abstract

CASD: 1/1





PAYKIN, D.M.; STAROSTIN, S.G.; MENDE, P.F.; KUZNETSOV, K.P.;

POPOVA, M.I.; PESHKOV, V.G.

Mist spraying of chlorophos against the shield bug Eurygaster integriceps. Zashch. rast. ot vred. i bol. 7 no.2:20-21

F '62.

(Chlorophos) (Eurygasters)

(Spraying and dusting)

Popova, M.I.; Zverev, V.A.

Use of torpeds from determing blast hole for sleaning allowed filters. Nefteprom. delo no.22172163 (MRA 1727)

1. Kraanokamskoye neftepromyslovoya upravleniya.

PAPORKOV, Mikhail Alekseyevich; POPOVA, M.I., red.; DRANNIKOVA, M.S., tekhn.red.

[School excursions into nature; from the experience of a teacher] Shkol'nye pokhody v prirodu; iz opyta raboty uchitelia. Moskva. Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 198 p. (MIRA 14:4)

(School excursions)

(Nature study)

Angiography in the diagnosis of tumors and cysts of the mediastinum.
Vrach.delo no.12:1299-1303 D '59. (MIRA 13:5)

1. Klinika torakal'noy khirurgii (zav. - prof. N.M. Amosov) Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza.

(ANGIOGRAPHY) (MEDIASTINUM--TUMORS)

Peresp, 11. 11.

USSR/General Division. Problems of Teaching.

A-7

Abs Jour

: Ref Zhur-Biologiya, No 20, 1957, 85126

Author Inst : M. M. Popova

Title

: The City School's Tie to the Kolkhoz.

Orig Pub

: Biol. v skhole, 1957, No 1, 53-56

Abstract

: No abstract.

Card 1/1

POPOVA, M. M., CAND MED SCI, "PRACTICAL APPLICATION OF ANGIOCARDIOGRAPHY IN CONGENITAL CARDIAC FAILURE." KHAR'KOV, 1960. (KHAR'KOV STATE MED INST). (KL, 2-61, 219).

-272-

Contact of a city school with the collective farm. Biol.v shkole no.1:53-56 Ja-F '57. (MIRA 10:5) 1.Uchitel'nitsa shkoly No. 351, goroda Moskvy. (Zvenigorod District--Agriculture--Study and teaching)

POPOVA, M.M.

"Some Peculiarities in the Distribution of Radioactive Calcium in the Osseous Tissue of Rats Exposed to Common X-ray Irradiation" p. 118, in the book Experience intthe Use of Radioactive Isotopes in Medicine R. Ye. KAVETSKIY and I.T. SHEVCHENKO, published by the Gosmedizdat Publishing House of the UKRAINIAN SSR, KIEV 1955, represents medical transactions of a conference held in KIEV from 19-20 January 1954.

So: 1100235

Journal of the Iron and S Vol. 176 Apr. 1954 Analysis	teel Institute	Determination of Michigan Carend A. F. Platonova. IZrocki, (10), 1132-1185). [In Russian], the conditions for the expansion to the conditions for the expansion to the condition of the expansion of the carbide in steels was developed the carbide in steels was developed.	Life in Statis. M. M. Popora inya Laboratoriya, 1900, 18, In the investigation reported, ion of nichum carbide and I of hydrofluoric acid were rmining nichium existing as sped.—a. K.
			11-5-54 ma
			·
		. •	•

POPOVA, M.M.

Popova, Malcheva, M., "Investigation in Determining the Direction of the Heridan and Other Similar Problems." p.1 ("ODISHNIK, IN TRATIKA I FIZIKA, Vol. 47, No. 1, 1950/

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March, 1954, Uncl.

POPOVA, M.M.

Practical use of angiocardiography in congenital heart defects. Yrach. delo no.9:901-903 S 59. (MIRA 13:2)

1. Kafedra rentgenologii i radiologii (zaveduyushchiy - dotsent N.F. Zarkevich) Kiyevskogo meditsinskogo instituta i kafedra torakal'noy khirurgii (zaveduyushchiy - prof. N.M. Amosov) Kiyevskogo instituta usovershenstvovaniya vrachey.

(ANGIOGARDIOGRAPHY) (HEART--ABNORMITIES AND DEFORMITIES)

LASHKO, N.F.; OREKHOV, G.N.; POPOVA, M.M.

Metastable aging processes in heat-resistant pearlitic steel. Fiz. met. 1 metalloved. 12 nc.3:417-423 S '61.

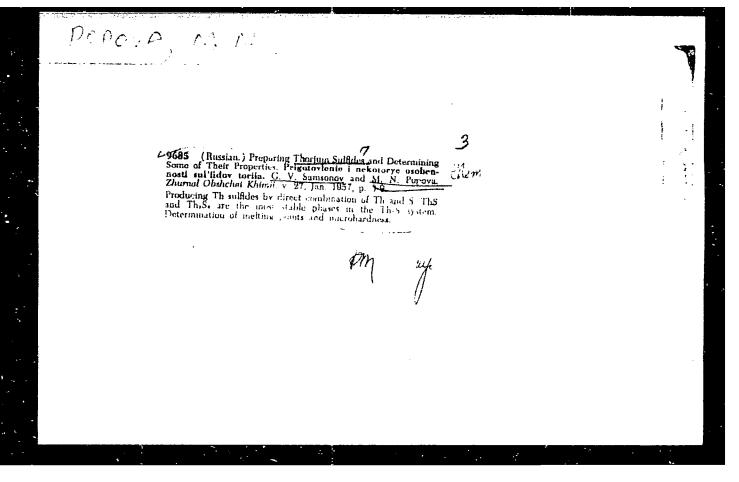
(MIRA 14:9)

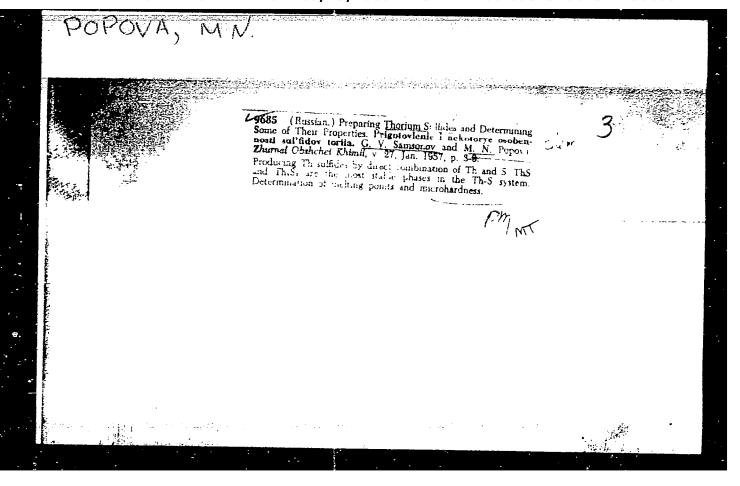
(Steel, Heat-resistant--Hardening)

GAVRILYUK, V.S., kand.tekhn.nauk; POPOVA, M.N., inzh.

Errors in the theory of the mechanical strength of metals during crystallization. Svar.proizv. no.4:30-32 Ap '62. (MIRA 15:3)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana. (Thermal stresses) (Crystallization)





POPOVA, M.N.; SEMI SHKIN, G.B.; TSIKIN. A.M.

Change in the electric properties of alkali helide crystals due to prolonged exposure to a constant electric field. Izv. AN SSSR

Ser. fiz. 29 no.1:82-85 Ja '65.

(MIRA 18:2)

L 32815-65 ENT(1) IJP(c)

ACCESSION NR: AP5004528

5/0048/65/029/001/0082/0085

21

AUTHOR: Popova, M.N.; Semushkin, G.B.; Tsikin, A.N.

R

TITLE: Changes in the electric properties of alkali halida crystals under prolonged application of a dc field /Report, 12th Conference on Luminescence hold in L'vov 30 Jan-5 Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.1, 1965, 82-85

TOPIC TAGS: alkali halide, single crystal, tenebrescence, electric conductivity, aging process

ABSTRACT: The aging of KCI and KBr crystals in fields from 50 to 1000 V/cm was investigated at temperatures from 350 to 650°C (400 to 500° for KBr). Metal foil electrodes were carefully attached to the crystals, and the contact was considered satisfactory provided no trace of oxidation of the electrode could be seen after the experiment. The current versus time curves showed four distinct regions: an initial region of constant current, a region of rapidly increasing current, another region of nearly constant current, and a final region of rapidly increasing current leading to breakdown. All four regions of the current curve were clearly marked in

Card 1/2

L 32815-65

ACCESSION NR: AP5004528

the case of the KBr crystals, and tenebrescence was either absent or very weak. When tenebrescence was observed it appeared simultaneously throughout the crystal with no trace of tenebrescence front. With the KCl crystals only the first three regions of the current curve were ordinarily observed, and these were less sharply distinguished than in the case of KBr. Tenebrescence was regularly observed but different crystals behaved differently in this respect. In some crystals the coloring appeared simultaneously throughout the crystal as in KBr, and in others a rejion containing a considerable concentration of F centers formed at the cathode amigrew toward the anode. Discharge currents decaying slowly with time were observed with all crystals when the aging was interrupted at any stage and the electrodes short circuited. Some but not all of the results can be interpreted in terms of the electrolytic theory of G.Heiland (Z.Phys.128,144,1950); it is suggested that two processes are involved, one of which is described by Heiland's theory, while the other requires further study. Orig.art.has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00/-Jan65

ENCL: 00

SUB CODE: SS

NR REF SOV: 001

OTHER: 001

Card 2/2

L 21430-66 FBD/ETT(1)/EEC(k)-2/T/ETF(k)/ETA(b) IJF(c) VG
L 21431-66 FB5/2 1(1)/LLS(k) L) SOURCE CODE: UR/0386/66/003/007/0301/0303
AUTHOR: Korobkin, V. V.; Leomtovich, A. M.; Popova, M. N.; Shchelev, M. Ya.
ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy institut Akademii nauk SSSR)
TITLE: Dynamics of the field and generation frequency in a giant pulse of a laser with passive shutter
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye. v. 3, no. 7, 1966, 301-303
TOPIC TAGS. ruby laser, laser pulsation, laser modulation, electromagnetic field
ABSTRACT: The authors have previously investigated (ZhETF v. 48, 78, 1965) the dynamics of the field and the generation frequency experimentally for a laser in the free mode. This paper reports a similar investigation of the dynamics of the field and the generation frequencies in the giant pulse of a ruby laser with passive shutter. The passive shutter used was a cell with a solution of cryptocyanine in ethanol. The initial transmission of the cell was 15% for 6943 Å wavelength. The cell was placed between the flat mirror with reflection coefficient 98% and a ruby crystal 120 mm long and 11.5 mm in diameter. The second mirror, located 50 cm from the first, had a reflection coefficient of 30%. The laser action, initiated
Card 1/3

L 21430-66

ACC NR: AP6011498

on the end face and on the 30% mirror, bleached the cryptocyanine solution and a giant pulse developed. The pulse energy was 0.5-0.8 J and the duration was 12 to 15 nsec at the half-power level. The time sweep of the field pattern and the time spectra of the generations were with the aid of an electron-optical converter (EOC) operating in the slit-scanning mode and providing a resolution of 0.5 nsec. Photographs are presented of the scanned generation field on the end of the crystal, of the development of the generation field in the far zone, and the time sweep of the giant pulse as observed with a Fabry-Perot interferometer. The results show that individual small regions, spaced 0.1-1 mm apart, are in operation on the end surface. In each such region is observed a pulse of duration 1.8-4 nsec. The subdivision of the generation region into individual sections can be attributed to the operation of higher-order modes and to the inhomogeneity of the crystal. The beam divergence increases in time from 1.2-1.5' to 20', and this variation of the field must be taken into account in calculations of the power of the field at the focus of a lens. The lasing frequency shifts toward the violet side during the course of generation. This shift amounts to 0.012-0.015 cm1, and the line width at each instant is ~0.01 cm2. The observed change in the generation field of the giant pulse of a laser with passive shutter is in good qualitative agreement with the results of the theoretical paper of V. S. Letokhov and A. F. Suchkov (ZhETF v. 50, no. 6, 1966), which pertains to the case of instantaneous Q-switching and not

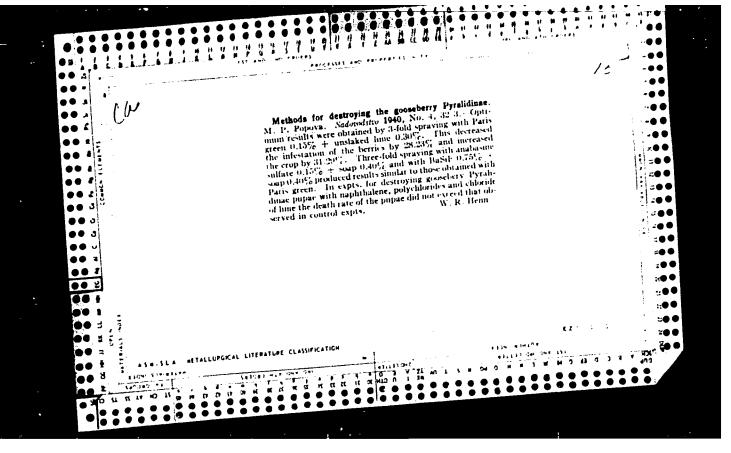
Card 2/3

L 21430-66 ACC NR: AP6011498

to the case of a passive shutter. There are no calculations as yet for passive shutters. The change in the generation field is evidence of the change in the transverse of the mode index from low values of the order of 1 to a value of the order of 50. If the axial index does not change, then the increase in frequency, co.3 cm¹, which is larger by one order of magnitude than the measured value 0.02 cm¹. The cause of the measured frequency shift is still unclear. The authors thank M. D. Galanin, V. S. Letokhov, and A. F. Suchkov for discussions. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 22Feb66/ ORIG REF: 002/ OTH REF: 001 ATD PRESS: 4121

Card 3/3 (10)



POP NA, ... [?]

POPO A, ..., and LAKCKAYA, O. Pests and Lisease of Fruit and Berry
Crops and Their Control. Moscow Worker, Moscow, 1946, 103 pp. 44... Pl

So: SIRA SI-90-53, 15 December 1953

- 1. FOPOVA, M. P., SOEOLEVA, V. P.
- 2. USSR (600)
- 7. Vrediteli i Bolezni Plodovo-Yagodnykh Kul'tur (Pests and Diseases of Fruit and Berry Crops), 263 pp, Moscow, 1951.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

WELLTH TERROR HAVE WELFACTOR CONTRACT VIOLANCE (FROM NO DE VERTE NO DE VERTE DE VERTE NO DE VERTE DE V

POPOVA, M. P. Cand Agr Sci -- (diss) "Effect of the degree and character of salification of soils upon the growth and condition of tree and shrub species under irrigated conditions of the lower Povolzh'ye." Mos, 1958. 16 pp (Acad Sci USSR. Soil Inst im V. V. Dokuchayev), 150 copies (KL, 14-58, 115)

-87-

```
ol 7. . . r 🕝 . . Wana
  TUTTION AT : RENERALASPECIZOCLOSY, WY EGT 1
                                                                                                                             Englet are Mito Pictor.
ABS. JOURA Her Minor -Biologiya, No. 4, 1939, No. 333
                                                                                               : Fourth, C.P. : Moscow Fruit and Berry Exp. Station
author
IN TU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 . 5-
                                                                                                  <u>សាស្ត្រ។ ស្រាស់ ស្ត្រី ស្ត្រី ស្ត្រី</u>
TINLE
                                                                                                       a second to be be.
ORIG. PUB : Fytal, madeimo-tekim, liosk, plod-yegoda,
                                                                                                                        opyan. sa., 1858, No.2, 26-28
APRITALICY PROBLEMS TO THE TOTAL TO THE STATE OF THE STAT
                                                                                                        by mites . The second of the control of the control
```

CARD: 1/3

AUTHOR INST.

TITLE

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001342430003-1"

fiff. At explication of the vesuals was note.

ORIG. PUB .:

ABSTRACT : after a year -- Hoy 3rd - 9th, 1956. The num-; ber of damaged ouds in the control increased from 20.0 to 46.7%, and there was a decrease in the variance of the exteriment as compared with the control: I - 73.5%, II - 86.2%, III 96.3%. The total number of buds on one bush rose on an average of 9% in the control, in variants I and II - 97%, in 111 - 81%. The currents were divided into three groups accord! ing to the extent of damage to the bud caused by

· 12/3 CARD:

POPOVA, M. P.

Dissertation: "Determination of Zinc Phosphide and Its Stability in Food Products During Storage and Cooking." Cand Biol Sci. Second Moscow State Medical Inst., Moscow 1953.

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR, (***2335)

ZHARIKOV, N.M.; LEVIT, V.G.; POPOVA, M.S.; RATNER, I.O.; STANKEVICH, L.A.; SHMAONOVA, L.M.

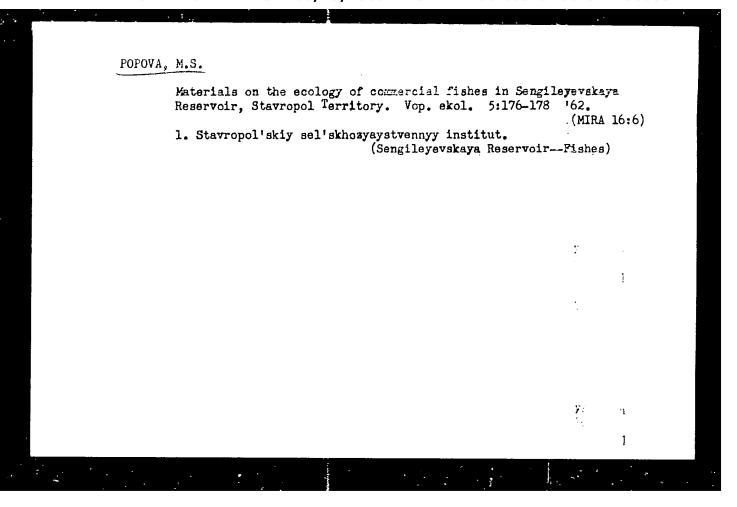
State of schizophrenia treatment based on data of an outpatient study. Zhur. nevr. i psikh. 64 no.6:911-918 '64.

(MIRA 17:12)

POPOVA, M.S.

Possibilities for expanding the assortment of valuable commercial fishes on fish farms, as exemplified by Sengileyevskaya Reservoir. Trudy sov. Ikht. kom. no.14:157-160 (MIRA 15:12)

1. Stavropol'skiy sel'skokhozyaystvennyy institut.
(Sengileyevskaya Reservoir—Fish culture)



SHLYAKHTIN, Ye.I.; ZHOROVA, A.G.; ANANCHENKO, M.V.; GRISHUTIN, V.G.;
IVANOV, V.I.; DORONIN, A.A.; POPOVA, M.S., inzh.; TARASENKO, I.I.;
ROMANOV, A.I.; ZHUKOV, A.V.; LAPTEV, G.I., inzh.

Who should perform the forwarding and carrier services? Zhel. dor. transp. 45 no.6:42-45 Je 163. (MIRA 16:7)

1. Zamestitel¹ nachal¹nika stantsii Smolensk Moskovskoy dorogi po gruzovoy rabote (for Shlyakhtin). 2. Nachal¹nik pogruzkontory stantsii Smolensk Moskovskoy dorogi (for Zhorova). 3. Zaveduyushchiy gruzovym dvorom stantsii Smolensk Moskovskoy dorogi (for Ananchenko). 4. Nachal¹nik tovarnoy kontory stantsii Smolensk Moskovskoy dorogi (for Grishutin). 5. Zaveduyushchiy konteynernoy ploshchadkoy stantsii Smolensk Moskovskoy dorogi (for Ivanov). 6. Sekretar¹ partiynogo byuro stantsii Smolensk Moskovskoy dorogi (for Tarasenko). 7. Stantsiya Smolensk Moskovskoy dorogi (for Doronin, Romanov, Popova). 8. Upravlyayushchiy Smolenskim oblastnym avtotrestom (for Zhukov). (Freight and freightage)

POPOVA, M.S.

MBr., Pharmacological Dept., Union Cheme-Pharmaceutical Inst., im. Ordzhonikidze,

Moscow, -1939-41-.

"Changes of the Blood Picture under the Influence of Liver Preparation:," ibid.,

4, No. 3, 1941.

POPOVA, M.S. (Moskva) Some characteristics of higher nervous activity in patients with the paranoid form of schizophrenia at different periods of its course. Zh. nevropat. psikhiat. Korsakov 63 no.3:392-398 163

POPOVA, M.S.

Some disturbances in the neurodynamics in patients with the paramoid form of schizophrenia with a prolonged course of the process.

Trudy Inst. vys. nerv. deiat. Ser. patofiziol. 7:29-40 '60.

(MIRA 14:4)

(SCHIZOPHRENIA) (REFLEXES)

POPOVA, M.S.

Materials on the morphology and biology of Chalcalburnus chalcoides schischkovi Drensky acclimatized in Sengileyevskaya Reservoir, Stavropol Territory. Vop. 1kht. 1 no.3:468-480 '61. (MIRA 14:11)

l. Kafedra zoologii Stavropol'skogo sel'skokhozyaystvennogo instituta, Stavropol' krayevoy.

(Sengileyevskaya seservoir--Carp)